ZARINS, L.

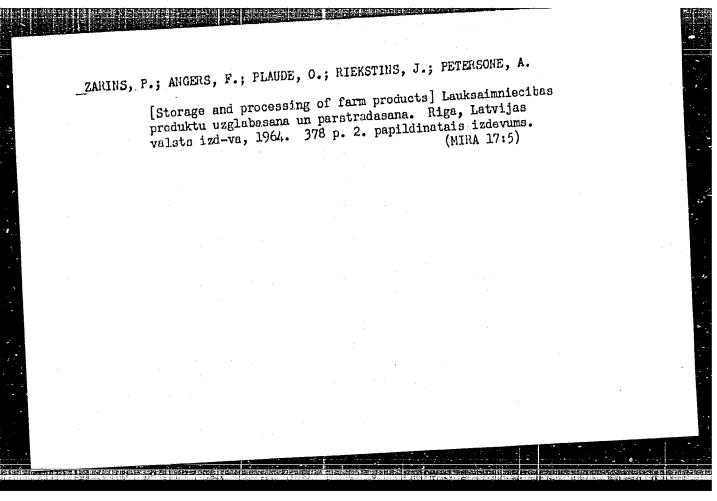
Latvian maples and their significance in building forests. p. 63.

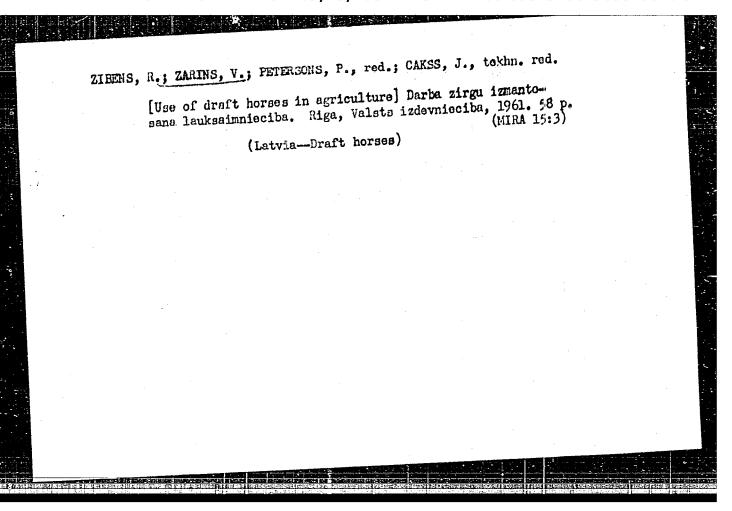
BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas zinatnu nodala) Riga, Latvia, No. 3, 1957.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959. Uncla.

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-0

CIA-RDP86-00513R001963820016-5





sov/85-58-12-25/38

AUTHOR: Zeriksk, E., Public Instructor, Latvian SSR

TITLE: New Teams (Novyye kruzhki)

PERIODICAL: Kryl'ya rodiny, 1958, Nr 12, p 20 (USSR)

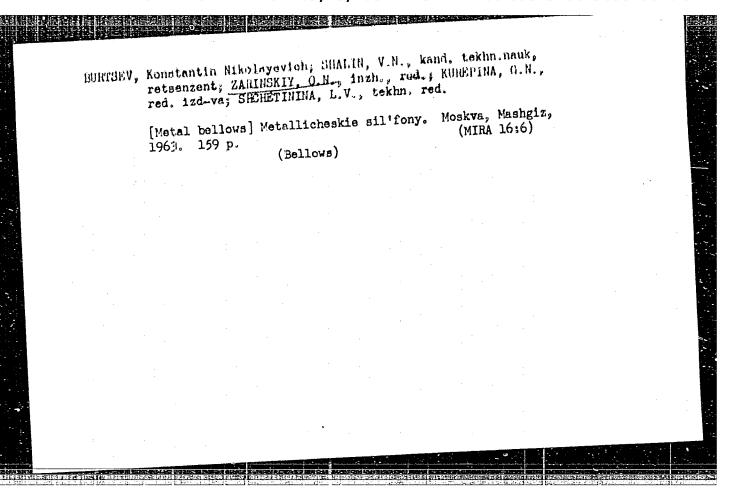
ABSTRACT: The author tells of the growing popularity of model aircraft building among students of Latvien intermediate and village schools.

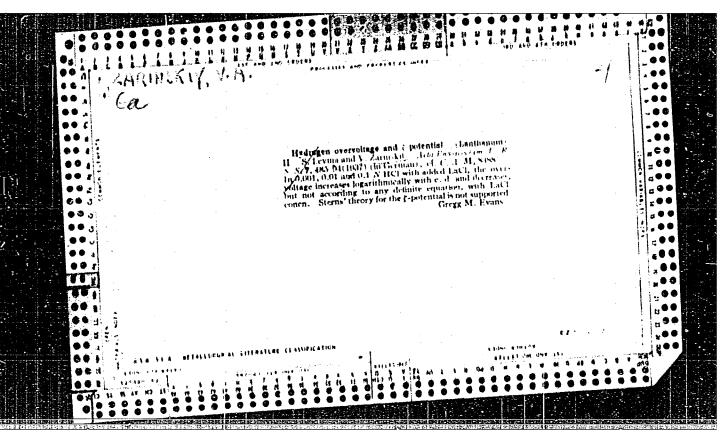
Card 1/1

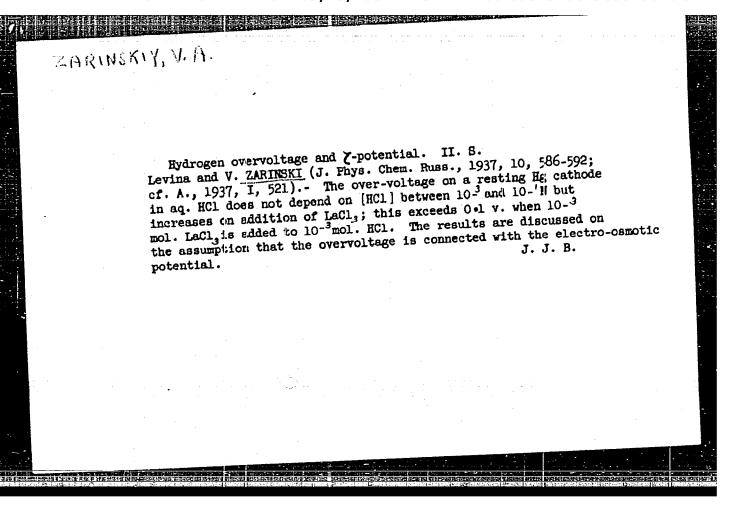
DELLO, A.V.; ZARINSKIY, O.N.; LURTYE, N.S.; SHAROYKO, P.M.; KACHKACHEV, A.Z., otv. red.

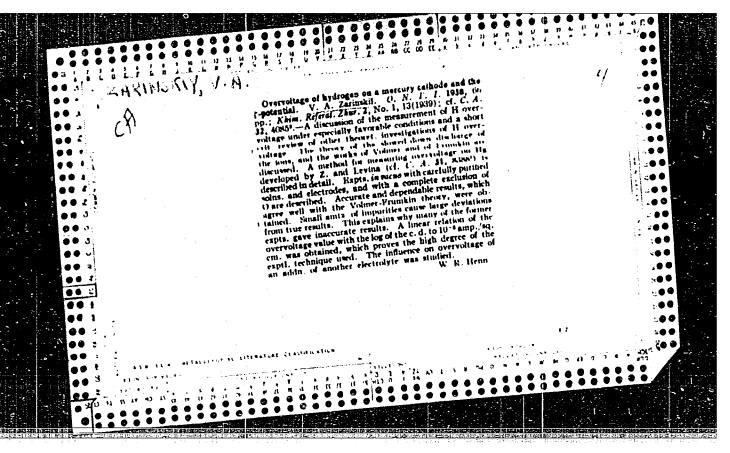
[Industrial pipe fittings; catalog] Promyshlennaia truboprovodnaia armatura; katalog-spravochnik. Moskva,
COSINTI, Pt.3. [Safety, reduction, regulating and mixing
valves, injectors, condenser returns, and electric drives
for the control of these fittings] Klapany predokhranitel'nye, reguliatory davleniia, inzhektory, kondensatootvodnye, reguliatory davleniia upravleniia armaturoi. 1963.
chiki i elektroprivody dlia upravleniia armaturoi. (MIRA 17:3)
238 p.

1. Leningrad. TSentral'noye konstruktorskoye byuro Armaturostroyeniya.



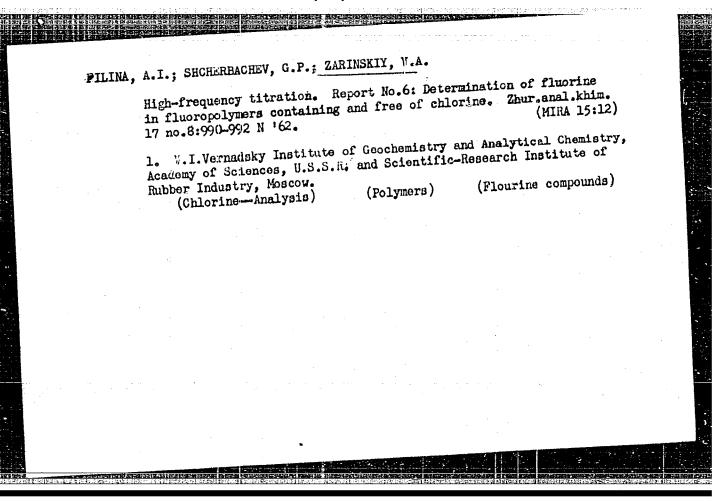






"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-

CIA-RDP86-00513R001963820016-5



sov/75-14-2-6/27 Zarinskiy, V. A., Frolkina, V. A., Farafonov, M. M. 5(4), 5(2)Wigh-voltage Electrodialysis (Vysokovol'tnyy elektrodializ). AUTHORS: Communication 2. On the Separation of Impurities From Metastannic Acid (Scobahcheniye 2. O vydelenii primesey is meta-TITLE: olovyannoy kisloty) Zhurnal analiticheskoy khimii, 1959, Vol 14, Nr 2, pp 181-183 PERIODICAL: In the present paper the possibility of a quantitative separa-(USSR) tion of impurities from metastannic acid by electrodialysis ABSTRACT: is investigated. Precipitations of metastannic acid were used which contained impurities of the order of magnitude of 0.1%. Metastannic acid was produced by two different methods, both of them being described in this paper. According to method 1 (treatment of metallic tin with concentrated nitric acid) compact precipitations were obtained, according to the second mothod (precipitation of Sn(OH) with concentrated ammonia) loose, rather amorphous precipitations were formed. Electrodialysis was performed using cellophane membranes. The sample was introduced into the middle chamber of a three-chamber analyzer. The cathode chamber was filled with nitric acid $(10^{-1} - 10^{-3} \text{ N})$, the two other chambers with bidistilled water. Card 1/3

SOV/75-14-2-6/27

High-voltage Electrodialysis. Communication 2. On the Separation of Impurities From Metastannic Acid

The experiments were continued until the margining of the minimum current intensity (5-7 $\mu a)$ and the corresponding maximum voltage (2000 v). The samples taken from the cathodeand anode chamber in periodic intervals were analyzed photocolorimetrically and polarographically. It was found that the separation of iron, copper, lead, and cadmium from gels of metastannic acid, produced according to method 2, takes place more easily because these gels have a stronger amorphous structure and more strongly dispersed particles than the gels obtained according to method 1. From amorphous precipitations, however, impurities cannot be separated quantitatively and not to the same extent. The per cent content of iron may be reduced by electrodialysis by a tenth power while the per cent content of the remaining metals (Cu, Pb, Cd) may be reduced by approximately half of a tenth power. Practically no separation of impurities from metastannic acid produced according to method 1 was observed. The authors also carried out experiments on the separation of unweighable amounts of radioactive lead (Th B) and antimony (125Sb). The distribution of radioactivity in the anode- and cathode solution and in the

Card 2/3

High-voltage Electrodialysis. SOV/75-14-2-6/27 Communication 2. On the Separation of Impurities From Metastannic Acid

ashes of the two membranes after the end of electrodialysis showed that unweighable amounts of lead and antimony cannot be separated from metastannic acid by electrodialysis. The results of spectrum analysis of samples of metastannic acid produced by both methods after the dialysis are summarized in a table; in a further table the distribution of radioactivity of Th B in the three chambers and the membranes after electrodialysis is given. The authors thank G. N. Bilimovich for the preparation of Th B. There are 2 tables and 2 Soviet references.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I.

Vernadskogo AN SSSR, Moskva

(Institute of Geochemistry and Analytical Chemistry imeni

V. I. Vernadskiy of the AS USSR, Moscow)

SUBMITTED: April 11, 1957

Card 3/3

ZAKINSKIY, V. A.

Particle discharge of an aerosol in a bipolar atmosphere.

N. N. Tunitskiy, V. ZARINSKIY and I. V. Petryanov. Acta

Physicochim U. R. S. S. 13, 327-46 (1940) (in German).- The

particle discharge and that of the whole of a dil. aerosol in a

bipolar-ion atm. proceed according to Z₁=Z f, where Z and Z

are the charges, at 0° and t and is proportional to the ion

concn. and independent of the radius. The Einstein-Focker

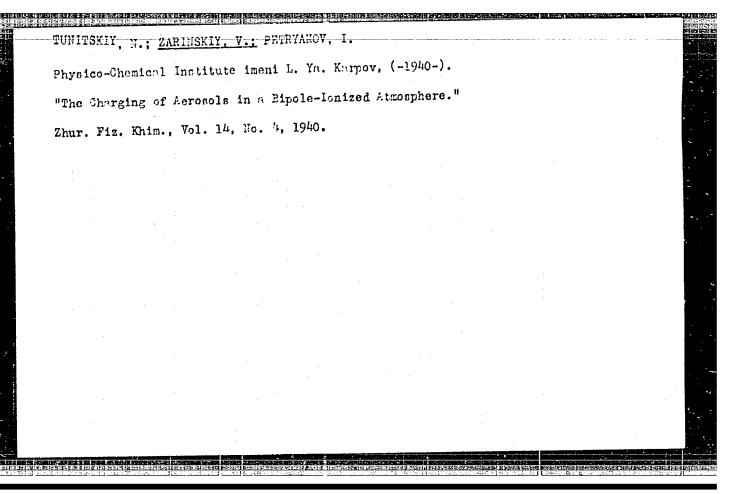
equations for the discharge and its fluctuations are derived.

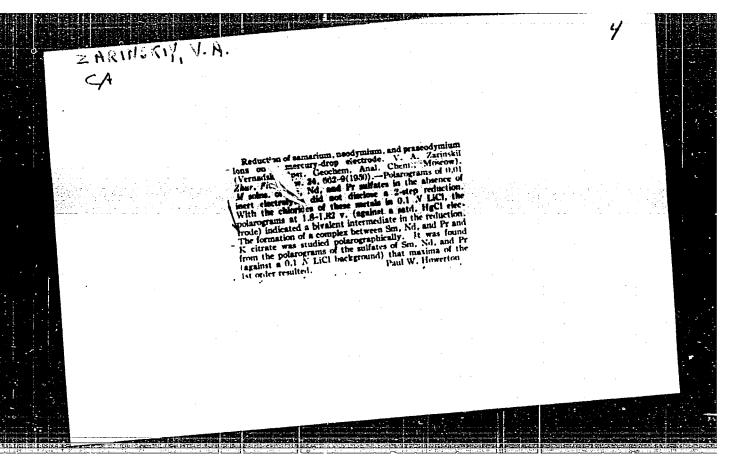
The exptl. data shown in 7 tables and 4 figs. on oleic acid

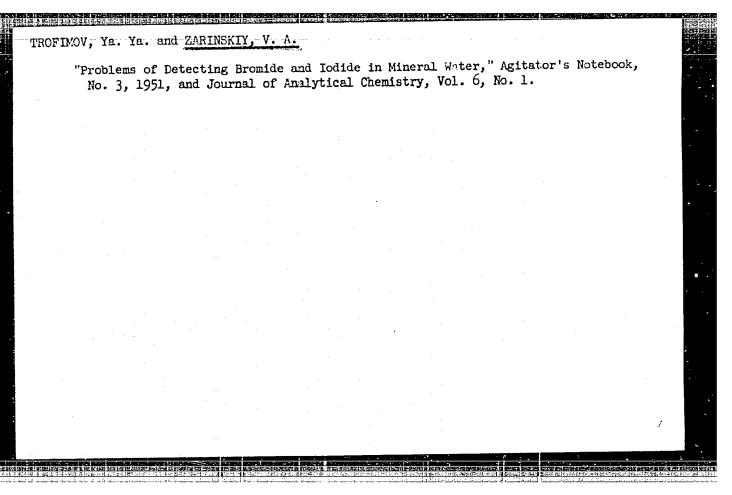
fogs with r=:0.15 - 0.18µ and charged by a Ra prepn., agree

well with the values calcd. from the derived equations.

F. H. Ratamann







ZARIKSKIY, V.A.

2129. Impulse amplifier for pH measurement with the glass electrode. A. V. Trofimov and V. A. Zarinsky (J. anal. Chem., USSR, 1951, 6, 56-58). Improvements in the Morton-Leeds & Northrup apparatus are described.

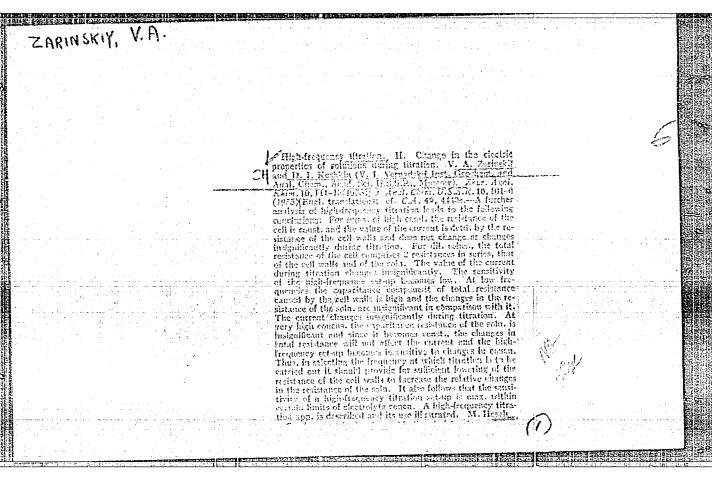
ZARINSKIY, V. A.

Electrochemical Analysis

New apparatus for electrochemical methods of analysis. Zhur. anal. khim. 7, No. 3, 1952.

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

ZARIHSEIY. V. A. USSR/Chemistry Card 1/1 Zarinskiy, V. A., and Koshkin, D. I. Authors High frequency titration. Part 1 .-Title Zhur. Anal. Khim, 9, Ed. 1, 29-36, Jan-Febr. 1954 Periodical An arrangement for high frequency titration working on a 4 mc quartz crystal stabilized generator is described. It is shown on the bases Abstract of acid-alkali, oxidizing-reducing titration and precipitation reactions that this new arrangement can also be used for volumetric analyses. The math of the titration curves in all investigated cases. indicates that the change in total resistance of the nucleus in the solution during titration, in accordance with the current conductance measuring method, is basically determined by the change in the resistance of the solution. Thirty references. Grarhs, drawings. Acad. of Sc. USSR, The V. I. Vernadskiy Inst. of Geochemistry and Institution Analytical Chemistry, Moscow. Nov. 10, 1953 Submitted



RUMANIA/ Analytical Chemistry. General Problems. G-1

Abs Jour: Referat. Zhur. - Khimiya, No. 8, 1957, 27113.

Author : V. A. Zarinski, I.R. Mandelberg.

Title : High Frequency Titration.

Orig Pub: An. Rom.-Sov. Metalurgie si constr. masini, 1955, 10, No. 3, 134 - 145.

Abstract: Translation. See RZhKhim, 1956, 58354.

Card 1/1

н.

ZARINSKIY, U.A.

USSR/Fitting Out of Laboratories. Instruments,

Their Theory, Construction and Use

Abs Jour : Referat Zhur - Khimiya, No 2, 1957, 4963

Author : Zarinskiy, V.A., Koshkin, D.I.
Title : Unit for High Fraquency Titrations

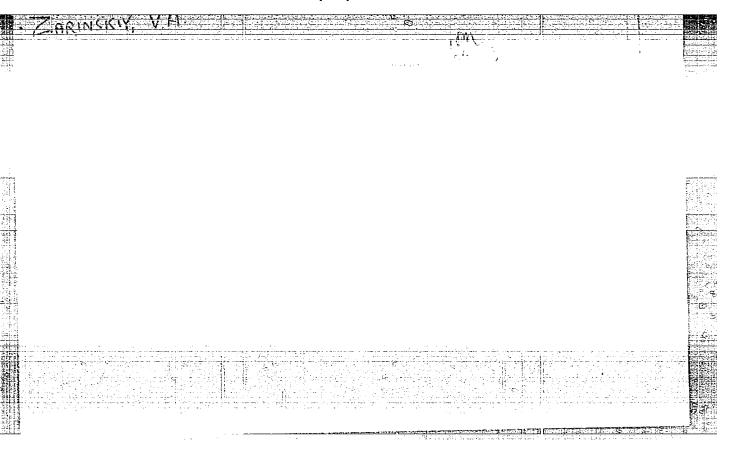
Orig Pub : Zavod. Jaboratoriya, 1956, No 1, 110-113

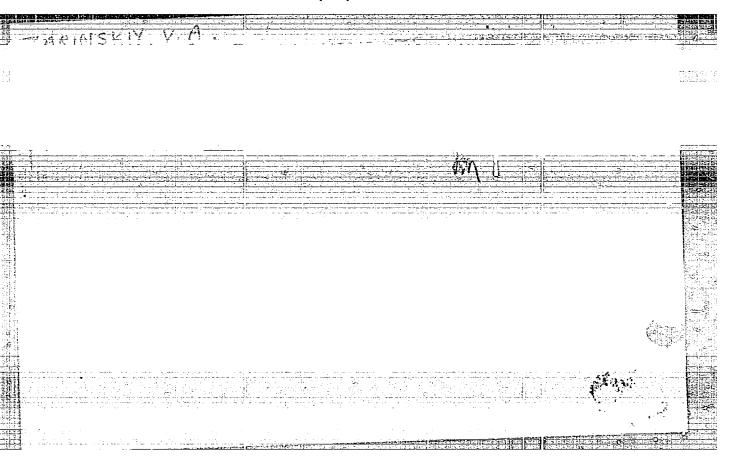
Abstract: Description of a unit for carrying out HF titrations based on reactions of neutralization, oxidation-reduc-

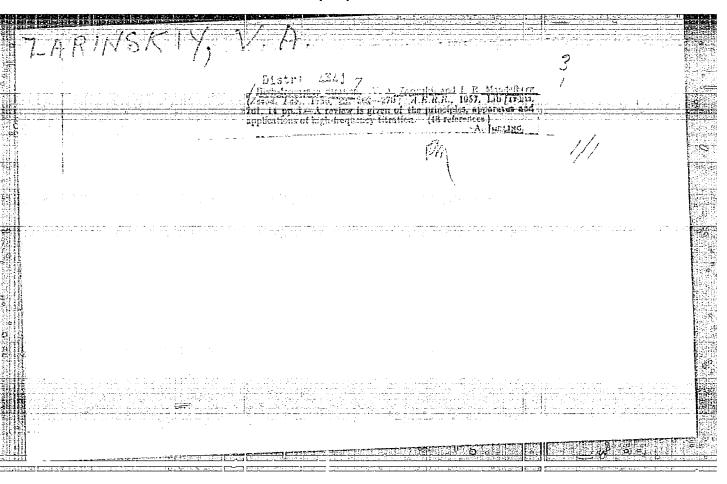
tion, precipitation or complex formation, in the course of which takes place a change in the conductivity of the solutions under study. The device consists of a HF generator, a titration cell inductively connected therewith, and an apparatus that indicates change in the current flowing through the cell. In comparison with a conventional conductimetric method the HF titration method has the following advantages: 1. Due to fact that the

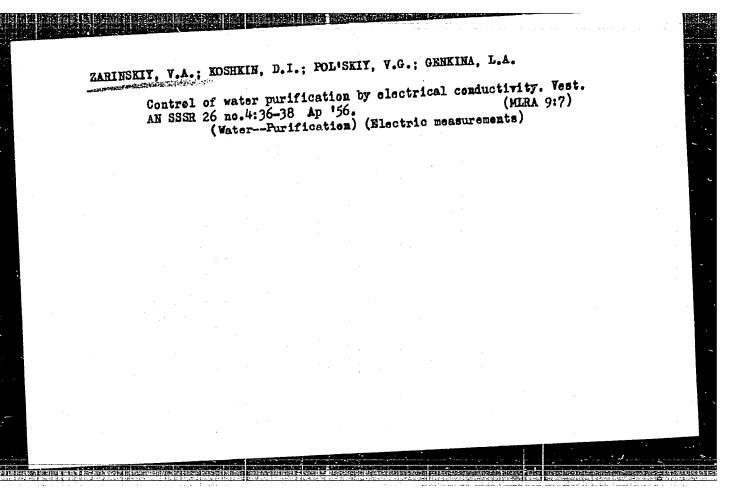
metal contings of the cell do not come in contact with

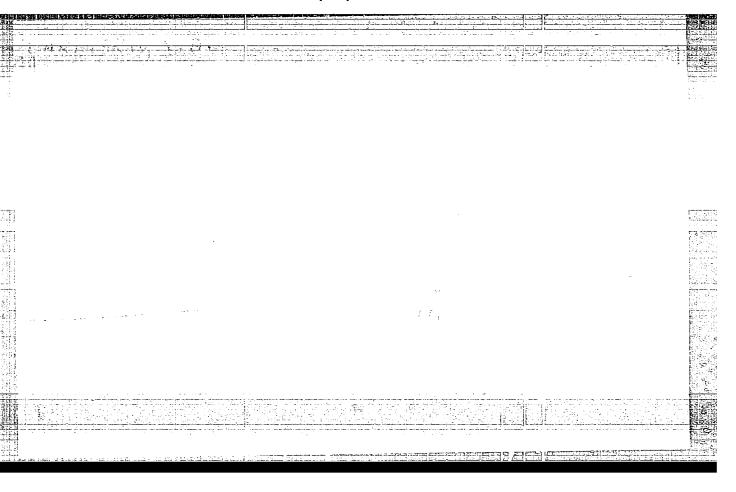
Card 1/2











75-6-2/23 Zarinskiy, V. A., Farafonov, M. M., Zateyeva, V. V. AUTHORS: High-Voltage Electrodialysis (Vysokovol'tnyy elektrodializ) Communication number 1 - Separation of Contaminations from Silicon-TITLE: and Tungsten Acids (Soobshcheniye 1. Vydeleniye primesey 12 kremne= voy i vol'framovoy kislot). Zhurnal Analiticheskoy Khimii, 1957, Vol. 12, Nr 6, pp. 677-683 PERIODICAL: (USSR). The traces of Fe, Cu, Pb and Cd /0,01-0,0010/o/ can be isolated quantitatively by applying high-woltage electrodialysis of SiO2. ABSTRACT: The electrodialyser has three chambers; the membranes consist of cellophane. A separation of Bi, Sn and Sb cannot be achieved in a quantitative way, since SiO2 intensely adsorbes these ions. The ana= lyses were carried out by means of the spectroscopic apparatus I.S.P. 22. The separation of Pb, Cd, Bi, Sn and Sb, with a content of 1,105 - 5,10 0/0 takes place after 7 to 9 hours of electrodialysis in a quantitative way; the content of Sr., Sb and Bi decreas ses to a power of one; the quantitative separation of Sn and Sb of WO, is possible with electrodialysis in concentrated acetic acid. Card 1/2

High-Voltage Electrodialysis.

75-6-2/23

Communication number I - Separation of Contaminations from Silicon- and Tungsten Acids.

The incomplete separation of Sn, Sb and Bi of SiO₂ and WO₃ is caused by the easy hydrolizability of these elements in weak acid solutions. The complete separation of the contaminations by electrodialysis is with otherwise equal operation conditions dependent on the condition and structure of the deposit to be dialyzed. If the contaminations are incorporated in the crystalline lattice of the deposit, their quantitative separation is hardly, or practically not possible at all.

There are 4 figures, 1 table and 13 references, 12 of which are Slam

vic.

ASSOCIATION: Institute for Geochemistry and Analytical Chemistry imeni V. I.

Vernadskiy AN USSR - Moscow (Institut geokhimii i analiticheskoy

khimii imeni V. I. Vernadskogo AN SSSR - Moskva).

SUBMITTED: November 5, 1956.

AVAILABLE: Library of Congress.

Card 2/2

1. Silicon acids-Contamination separation 2. Tungsten acids-Contamination separation 3. Electrodialyzers-Applications

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820016-5

ARNSKIT,

USSR/Physical Chemistry - Electrochemistry.

B-12

Abs Jour: Referat. Zhurnal Khimiya, No 3, 1958, 7321.

Author : M.B. Bardin, V.A. Zarinskiy, L.A. Saley.

: Kishinev University. Inst

: Polarographic Determination of Hydrogen Ions on Solid Title

Platinum Electrode.

Orig Pub: Uch. zap. Kishinevsk. un-ta, 1957, 27, 93-100.

Abstract: The polarographic behavior of smooth Pt in HCl solutions saturated preliminarily with N2 was studied on the background of 0.1 n. KCl and Ol n. NaNo3 at pH = 3 to 4 without stirring. In accordance with literature data, 2 potentials of hydrogen liberation were observed: -0.56 and -1.03 v (satur. c. e.) in 1.5 . 10-3 n. HCl. It is noted that clear waves are received also with platinized and palladinized Pt electrodes, but they are shifted to the positive side. It is shown that the polaro-

: 1/2 Card

-18-

64-58-2-11/16 Zarinskiy, V. A., Kots, Ya. M. Electrochemical Characteristics of Ion-Exchange Diaphragms AUTHORS: (Elektrokhimicheskeya kharakteristika ionoobmennykh membran) Khimicheskaya Promyshlennost', 1958, Nr 2, pr. 51-52 (USSR) TITLE: NIIPHMKhP produced the diaphragm models for the described PERIODICAL: investigations according to stable technology. Already I. I. Zhukov and others (Ref. 1) used electrochemically active ABSTRACT: diaphragms for electric dialysis and they also investiga= ted them in detail. In connection with the theory of electric dialysis, in which the changes of electrolytes in the dialyzer chamber are determined by the number of passing cations n and anions n, the present work used the analy= tical method for the determinations of n_c + and n_{cl} - in a KC1-solution. In order to be able to measure the passage number a glass apparatus was used which has a silver grid anode and a silver grid cathode coated electrolytically with silver chloride. The diaphragm is mounted between two U-shaped glass tubes, one of them being connected with Card 1/3

"APPROVED FOR RELEASE: 09/19/2001 C

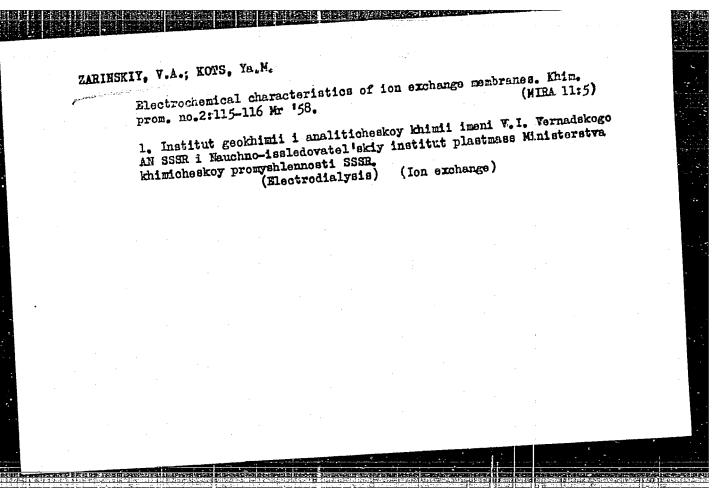
CIA-RDP86-00513R001963820016-5

64-58-2-11/16 Electrochemical Characteristics of Ion-Exchange Diaphragms the cathode space and the other with the anode space. The investigated system was: As / 0.01n KCl / diaphragm / 0.01 n KCl / Ag (-) In the investigations a current of 4 milliamperes was applied for 30 minutes and after this an hydrogen coulomb meter according to Barret (Ref. 12) was connected. After electrolysis the KCl-solution of each segment of the apparatus was titrated with 0.01 n AgNO3-solution. The passage numbers were calculated according to a given formula. The specific electric conductivity of the ion exchange diaphragms was determined in a glass apparatus consisting of two chambers in between which the diaphragm is mounted as soparating wall, being platinum electrode, on both sides (in each chamber). First the apparatus is filled with a 0.1 N KCl-solution and the resistance is measured; then the diaphragm is put in and with the same solution the summary resistance is measured. For measuring the resistan= ce an apparatus was used which was designed by the GYeOKhI Card 2/3

64-58-2-11/16 Electrochemical Characteristics of Ion-Exchange Diaphragms of the AS USSR together with the Electric Bulb Factory of the Order of Lenin in Moscow. The specific electric conductivity of the diaphragm was calculated from the measurements according to a formula, and the results for the various cationite and anionite types of dia= phragms are mentioned in a table. From this table can be seen that the diaphragms elaborated by the NIIPH have a low-Ohmic resistance. They are recommended for use in highvoltage electric dialyses (2000 V) as they possess also a great resistance to temperature. There are 2 figures, 2 tables and 14 reforences, 7 of which are Soviet. Institut geokhimii i analitichekoy khimii imeni V. I. ASSOCIATION: Vernadskogo AN SSSR i Nauchno-issledovatel'skiy institut plastmass MKhP SSSR (Institute for Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy AS USSR and the Scientific Research Institute for Plastics MKhP SSSR) Library of Congress 1. Diaphragms (Mechanics) -- Electrical properties AVAILABLE: 2. Diaphragms (Mechanics) -- Chemical properties 3. Electrolytes -- Per-Card 3/34. Ion exchange

"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820016-5



75-13-3-5/27 Zarinskiy, V. A., Koshkin, D. I. AUTHORS: High-Frequency Titration(Vysokochastotnoye titrovaniye) Communication IV. A Measuring Instrument Based on the Prin-TITLE: ciple of a Bridge Circuit (Scobshcheniye IV. Pribor na osnove mostovoy skhemy) Zhurnal analiticheskoy khimii, 1958, Vol 13, Nr 3, pp 289-PERIODICAL: -293 (USSR) The success of the use of high-frequency alternating current in chemical analysis and in production control is above all ABSTRACT: dependent on the fact whether handy apparatus simple in construction and handling, which are sensitive to concentration measurements in a wide range of concentration, are placed at disposal. In the present paper a device is described which meets these requirements to a higher degree than a previously described apparatus (Refs 1,2). In connecting the cell for high-frequency titration to one arm of a measuring bridge on alternating current it is not possible to obtain a distinct zero point by balancing. The reason for this is a phase displacement in the arms of the bridge and an additional balancing at the ends of the measuring diagonals. As these phenomena Card 1/3

High-Frequency Titration. Communication IV. A Measuring Instrument Based on the Principle of a Bridge Circuit

75-13-3-5/27

can only be removed with difficulty alternating-current bridge circuits have minerto not been used in high-frequency titrations. The authors of the present paper developed a bridge circuit for high-frequency titrations free of this trouble. By means of this arrangement the zero indication of the galvanometer is obtained without any difficulties just as in ordinary four-armed bridge circuits with direct current.

G- high-frequency generator
(35 megacycles),
D₁, D₂- germanium detectors DGTs 6
Z- cell for the titration

µA- microsmmeter

The principal circuit diagram of the new apparatus just as the device itself is drawn in the paper and described in detail. By means of this new device titrations can be per-

Card 2/3

High-Frequency Titration. Communication IV. A Measuring 75-13-3-5/27 Instrument Based on the Principle of a Bridge Circuit

formed in a wide range of concentrations (0,5n-1.10⁻³n). Moreover different reactions can thus be investigated in non-aqueous media. The manifold possibilities of application of the device are shown in the paper.

There are 5 figures and 17 references, 9 of which are Soviet.

ASSOCIATION: Institut geokhimii i analiticheskoy khimii im. V. I. Vernadskogo AN SSSR, Moskva (Moscow, Institute of Geochemistry and Analytical Chemistry imeni V. I. Vernadskiy, AB USSR)

SUBMITTED: October 2, 1957

1. Chemical analysis -- Instrumentation 2. High frequency currents -- Applications

Card 3/3

CIA-RDP86-00513R001963820016-5 "APPROVED FOR RELEASE: 09/19/2001

ZARINSKI 32-2-10/60 Zarinskiy, V. A., Mandel'berg, I. R. AUTHORS: A High-Frequency Apparatus for Physical and Chemical

TITLE: Investigations and its Application

(Vysokochastotnoye ustroystvo dlya fiziko-khimicheskikh

issledovaniy i yego primeneniye)

Zavodskaya Laboratoriya, 1958, Vol. 24, Nr 2, pp. 148-153 PERIODICAL: (vssr)

The apparatus described makes possible the determination of ABSTRACT: concentrations of substances in aqueous and non-aqueous binary solutions, the carrying out of titrations, as well as other physical and chemical, investigations; with all this it satisfies to operation control conditions. It is portable

and thus can be used for laboratories and commercial enterprises; it also works for a wide range of concentration with sufficient sensitivity. The main parts of this

apparatus are: a generator with a frequency of 5 mega cycles, a stabilized rectifier, a differential detector with a milliamperemeter as indicator, as well as an operational oscillation circuit and a compensation oscillation circuit.

Card 1/3

A High-Frequency Apparatus for Physical and Chemical Investigations and its Application

32-2-10/60

The sensitivity of the mioroamperemeter is controlled by two resistances. Some cell types of different capacity are mentioned for the investigation of liquids, as well as different titrations. A schematic representation of the apparatus as well as of the cells was made. Two different kinds of determination are mentioned, a socalled Q-metric operation value and a reactive operation value. A formula for the determination of maximum sensitivity is mentioned as well as for the operational range of the cells. In collaboration with S. L. Lel'chuk and A. M. Shtifman a method was develope which was acknowledged by the Ministry for Chemical Industry. By means of the high-frequency apparatus the content of e.g. melamin-formaldehyde resin in hydrochloric acid solutions can be determined. This was found in collaboration with B. T. Ivanova and A. M. Afanas'yeva (NIIGoznak), L. M. Shtifman determined the concentration of hydrogen peroxide in aqueous solution. This is not possible with low-frequency conductometry as hydrogen peroxide decomposes if it is contacting metals. The presence of polar liquids in nonpolar ones (e.g. nitrobenzene in benzene, acetone in carbontetrachloride etc.) increases the dielectric constant of the

Card 2/3

A High-Frequency Apparatus for Physical and Chemical 32-2-10/60 Investigations and its Application

mixture and thus makes possible a determination from the calibration curve. In collaboration with T. S. Sokolova (laboratory of the "Red Hero" Works) the dry residue in lacquer (K6 was determined. The analysis lasted for 1 minute and had an error limit of ± 0,3 %. The investigation of hydrochloric acid in silicium-organic liquide was carried out by S. V. Syavtsille and L. M. Shtikhman, while A. A. Nemodruk investigated the end points in the titration of paranitroaniline. There are 4 figures, 1 table, and 6 references, 4 of which are Slavic.

ASSOCIATION:

Institute for Geochemistry and Analytical Chemistry

im. V. I. Vernadskiy AN USSR

(Institut geokhimii i analiticheskoy khimii im. V. I.

Vernadskogo Akademii nauk SSSR)

AVAILABLE:

Library of Congress

1. Microamperemeters 2. Ammeters 3. Titrations

Card 3/3

5/078/61/006/003/014/022 B121/B208

Ryabchikov, D. I., Zarinskiy, V. A., Nazarenko, I. I.

Composition of the rhenium-thiocyanate complex compound AUTHORS: TITLE:

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 3, 1961, 641-646

TEXT: V. M. Tarayan and co-workers (Refs. 6,7) have studied the composition of the complexes of Thenium with thiocyanate. V. M. Tarayan (Ref. 7), tion of the complexes of rhenium with throcyanate. V. m. 12. rayan (here. I. D. I. Ryabchikov and A. I. Lazarev (Ref. 8) determined the number of SCN! u. 1. nyauchakuv and A. 1. nazarev (her. 0) decermined one number of son addenda. Their results are in good agreement with the data obtained by addenda. Their results are in good agreement with the data outdined by I. G. F. Druce (Ref. 1). D. I. Ryabchikov and A. I. Lazarev detected the anionic character of rhenium-thiocyanate complexes, by ion exchange and anionic character of rhenium-throcyanate complexes, by for exchange and suggested the following formula for the potassium salt: K[ReO(SCN)4]. may be seen from publications that there is no agreement on the composition and valence of rhenium-thiocyanate complexes. The authors studied this problem by electrochemical reduction with potassium perrhenate on a tungsten problem by electrochemical reduction of potassium perrhenate was cathode in HCl. The electrochemical reduction of potassium perrhenate was

card 1/3

APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820016-5

s/078/61/006/003/014/022 B121/B208

Composition of the rhenium-thiocyanate...

The rate of carried out in a special cell designed by V. A. Zarinskiy. electrolytic reduction of perrhenate in HCl depends on the cathode material. Reduction of ReVII -- ReV is possible in 7 - 9 N HCl. The sudden potential jump on the tungsten cathode from + 0.1 to 0.3 v, referred to a saturated calomel electrode, indicates the end of the reduction of ReVII_, ReV. The reduction is checked by titration with a cerium (IV) sulfate solution with addition of an excess of Fe3+. The reaction of pentavalent rhenium with thiocyanate was studied spectrophotometrically, and the effect of the concentration of rhenium (V) and thiocyanate in the solution on the completeness of rhenium-thiocyanate complex formation was investigated. It was found that the formation of the rhenium complex begins when raising the rhenium concentration to 0.002 mole and increases with increasing rhenium and thiocyanate concentrations. The necessity of higher concentrations of pentavalent rhenium and thiocyanate ions for the formation of the

pentavalent chenium-thlogyanate complex indicates that the colored complex is largely dissociated. The anionic character of the thiocyanate complex was confirmed by determining the transference number. The results are in

Card 2/3

S/078/61/006/003/014/022 Composition of the rhenium-thiocyanate... B121/B208

good agreement with the data of Ref. 8. The existence of pentavalent rhenium in the complex was clearly confirmed and the following formula obtained: $K_3[ReO_2(SCN)_4]$. There are 4 figures, 1 table, and 23 references: 5 Soviet-bloc and 18 non-Soviet-bloc.

SUBMITTED: November 9, 1959

Card 3/3

S/191/60/000/002/007/012 B027/B058

AUTHORS:

Shtiftman, L. M., Lel'chuk, S. L., Zarinskiy, V. A.

.

Determination of Electrolyte Traces in Organosilicon Liquids

TITLE:

Plasticheskiye massy, 1960, No. 2, pp. 26-28

PERIODICAL: Plasticneskiye massy, 1909, the Transport of the determination of acid traces in organosilicon liquids by means of high-frequency currents is dealt with in this study. Solve the first to use a high-frequency oscillation generator for determining zonal boundaries in chromatography, oscillation generator for determining the high-frequency method for acidimetric and alkalimetric phenol determination in the manufacture of pressed materials, as well as for the termination of the saponification number of dark-colored solutions. The authors experimented with samples of organosilicon liquids for the application of high-frequency titration as well as the titration with phenolphthalein as indicator. The acid numbers obtained with the former method were higher, since in this case not only H+ ions were determined at the same time, but also other ions. Besides H+ ions, other ions such

Card 1/2

Determination of Electrolyte Traces in Organosilicon Liquids

S/191/60/000/002/007/012 B027/B058

as C1 can cause errosion, making it very probable that the high-frequency method can successfully be applied for determining the corrosion effect of organosilicon products. There are 3 figures, 1 table, and 7 references: 2 Soviet and 5 US.

Card 2/2

S/078/61/006/005/007/015 B121/B208

AUTHORS: Ryabchikov, D. I., Zarinskiy, V. A., and Nazarenko, I. I.

TITLE: Electrolytic method of preparing trivalent rhenium compounds

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 6, no. 5, 1961, 1138 - 1141

TEXT: The electrolytic reduction of potassium hexachloro-rhenate on the mercury cathode (platinum anode) in hydrochloric acid medium of different concentration was studied. The reduction of trivalent rhenium was examined by titration with cerium (IV) sulfate. In 1 - 2 N HCl solution Re^{III} is quantitatively oxidized to Re^{VII} by cerium (IV) sulfate consuming four equivalents of the oxidant. Titration in 8 N HCl consumes only one equivalent cerium (IV) sulfate, Re^{III} being oxidized to Re^{IV}. The stability of tetravalent rhenium compounds increases with increasing concentration of hydrochloric acid. A fine-crystalline precipitate was obtained with cesium salt from hydrochloric acid rhenium (III) solutions. The precipitate was filtered and washed out with small amounts of 2 N HCl, alcohol,

Card 1/2

s/078/61/006/005/007/015 B121/B208

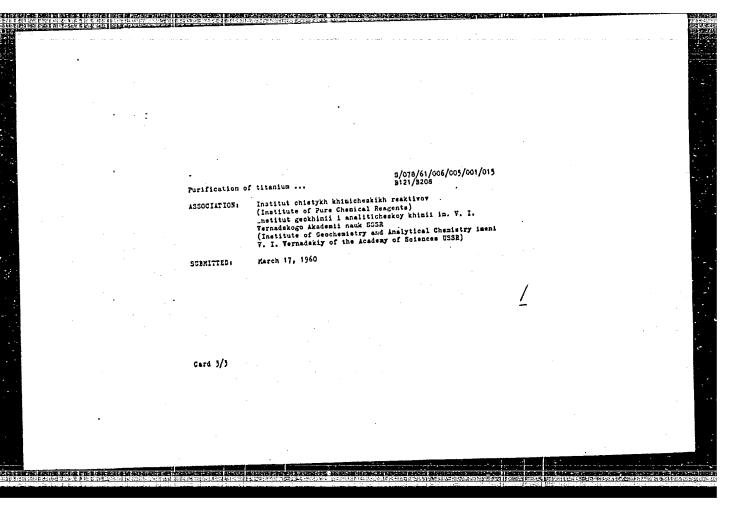
Electrolytic method of ...

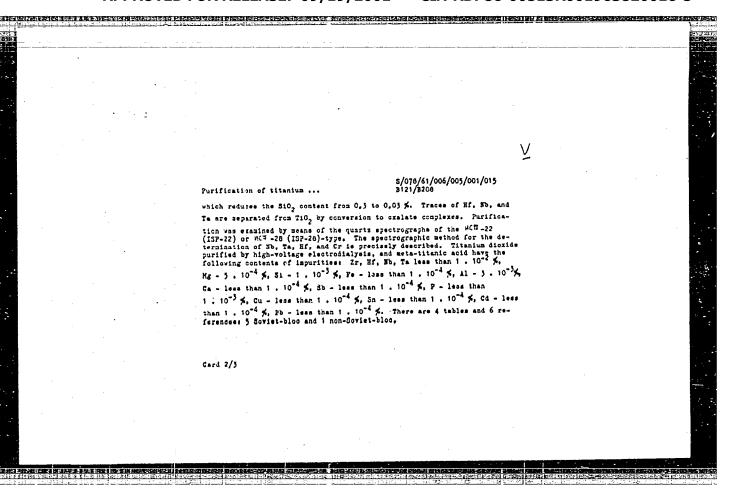
and ether. Analysis of the compounds with respect to rhenium gave 23.6 % (theoretical Re content in Cs_ReCl6 is 23.3 %). The valence of rhenium in Cs_ReCl6 was determined by cerium (IV) sulfate solution (0.074 N). Rhenium (III) was found to form a halogen complex. ReCl6 with the coordination number 6. The following Soviet authors are mentioned in the original papers Ref. 4: Myao Tsin-shen, V. G. Tronev, Zh. neorgan. khimii, 4, 1768 (1959); Ref. 6: see Ref. 4, page 2834; Ref. 12: V.V. Lebedinskiy, B. N. Ivanov-Emin. Zh. obshch. khimii, 13, 256 (1943). There are 3 figures, 1 table, and 22 references: 4 Soviet-bloc and 18 non-Soviet-bloc. The references to English-language publications read as follows: Ref. 10: 0. W. Kolling, Trans.Kansas. Acad. Sci., 50, 3, 378 (1953); Ref. 13: N. F. Curtis, J. Fergusson, R. S. Nyholm, Chem. Ind.(London), 625 (1958), Chem. Abstrs, 53, 2919 (1959); Ref. 22: E. K. Mann, W. Davidson, J. Amer. Chem. Soc., 72, 2254 (1950).

SUBMITTED: June 3, 1960

Card 2/2

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		,		3/078/61/ B121/B208	/006/005/001/015 3			
		AUTHORS:	Karsin, V. A., Laston Ryabchikov, D. I., Ze	vskiy, R. P., Katveyeva, arinskiy, Y. A., and Far	T. A., rafonov, H. H.			-
÷		TITLE	method of high-volta.					
		PERIODICAL	L: Zhurnal neorganiches	koy khimii, v. 6, no. 5,	, 1961, 1017 - 10	19 /		
		high-volts of a d-c i chambers i and volta to be pur the form:	age electrodialys:s was source (capacity 5 - 5, of organic glass and co ge. The electrode spac fitled is put into the c of a suspension. Purif b, En, Cd, Bi, and Cu is a marking elactrode pot	anium dioxide and meta- devised. The laboratory 7 KW), an electrodialyze ntrol equipments for me- ing is 10 - 12 cm. The entral chamber of the e- ioation from the impuri- a carried out in an ion- cential. To remove 510 ₇	er with five seuring experage titanium dioxide lectrodislyser in ties Mg, Fe, Ål, in current of Cl' from bitenium di	• •		
		oxide.	ai noifules HOM solution is	added in the enode cham	ber of the dialy	ier,		ŀ
		Card 1/3				2/		
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Mots, Ya.M., Zarinskiy, V.A. Diffusion through ion-exchange membranes and their electrochemical characteristics. Zhur. fiz. khim. 35 no.5:1103-1104 My '61. 1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR. (Diffusion) (Ion exchange resins—Electric properties)

ZARINSKIY.

s/020/62/144/003/024/030 B124/B101

AUTHORS:

Ryabchikov, D. I., Gerlit, Yu. B., Karyakin, A. V.,

Zarinskiy, V. A., and Zubrilina, M. Ye.

Extraction recovery of perrhenates with ketones

GITLE:

Akademiya nauk SSSR. Doklady, v. 144, no. 3, 1962, 585-587

PERIODICAL:

TEXT: Data on the influence exerted by the properties of the ketone on the distribution coefficient α in the extraction of perrhenates are presented, and the mechanism of extraction recovery of perrhenates is studied by means of some thermodynamic parameters and the infrared spectra. The relation between the ratio 28: MW (28 being the molecular weight of the CO group and MW the molecular weight of the ketone) of the extraction solvent and the distribution coefficient was found to be linear for the methyl ketone series, while, with ketones of the same molecular weight and structures different from those of the methyl ketones, deviations from linearity were established. A constant value of AH of 9.2 + 0.3 kcal was established for the methyl ketones. The value for other types of ketones is somewhat lower. Generally, lower values of the "thermodynamic" distribution coefficient α '

Card 1/3

Extraction recovery of ...

S/020/62/144/003/024/030 B124/B101

and AH as well as a shift of the stretching vibration frequency of the C=O group were found in the presence of sodium perrhenate. Since obviously no fundamental difference is to be expected in one series of solvents concerning the mechanism of extraction recovery of sodium perrhenate, the respective deviations are probably due to the difference in the composition of the solvates formed. The infrared spectrum of water in several solvated associates of the perrhenate ion with hydrogen, sodium, potassium, calcium, and aluminum ions remained practically unchanged. When the solvating cations are replaced by a hydrophilic group such as $(C_6H_5)_4As^+$ or $(C_6H_5NH)_3C^+$, some changes of the intensity distribution in the spectrum of water are observed, with the main portion of water remaining more firmly bound then in the ketone-water system. Thus, it can be concluded that the perrhenate ion is hydrated, which agrees with data in literature. The shift of the absorption band frequency of the OH group is somewhat greater in the presence of salts than in the presence of water. It can be stated that there is a direct bond between the ketone and the rhenium ion in the solvate. There are 3 figures and 1 table. The most important English-language reference is: R. D. Waldron, J. Chem. Phys., 26, 809 (1960).

Card 2/3

Extraction recovery of ...

S/020/62/144/003/024/030 B124/B101

ASSOCIATION:

Institut geokhimii i analiticheskoy khimii im. V. I.

Vernadskogo Akademii nauk SSSR (Institute of Geochemistry and Analytical Chemistry imeni V. I. Vornadskiy of the

Academy of Sciences USSR)

PRESENTED:

November 13, 1961, by A. P. Vinogradov, Academician

SUBMITTED:

November 4, 1961

Card 3/3

KOTS, Ya.M.; ZARINSKIY, V.A.

Potentials of some cation-exchange membranes. Zhur.fiz.khim. 35 no.6:1219-1220 Je 161. (MIRA 14:7)

1. Akademiya nauk SSSR, Institut geokhimii i analitich eskoy khimii.
(Ion exchange) (Membranes (Chemistry))

SYCHEV, A.Ya.; ABLOV, A.V., ZARINSKIY, V.A.

High frequency study of the hydration kinetics of halobis (dimethyl-glyoximato) aquocobaltate(III). Zhur.neorg.khim. 6 no.4:825-829 Ap '61. (MIRA 14:4)

l. Institut khimii Moldavskogo filiala AN SSSR, i Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR. (Cobalt compounds)

 RYABCHIKOV, D.I.; ZARINSKIY, V.A.; NAZARENKO, I.I.

Electrolytic method of preparing a compound of trivalent rhenium. Zhur.neorg.khim. 6 no.5:1138-1141 My *61. (MIRA 14:4)

(Rhenium compounds)

ZARINSKIY, V.A.; FROLKINA, V.A.; GOLUBEV, A.D.

Measurement of the pH by means of electrodes made of lithium glass. Zav.lab. 27 no.2:223-225 '61. (MIRA 14:3)

1. Institut geokhimii i amaliticheskoy khimii imeni V. I.

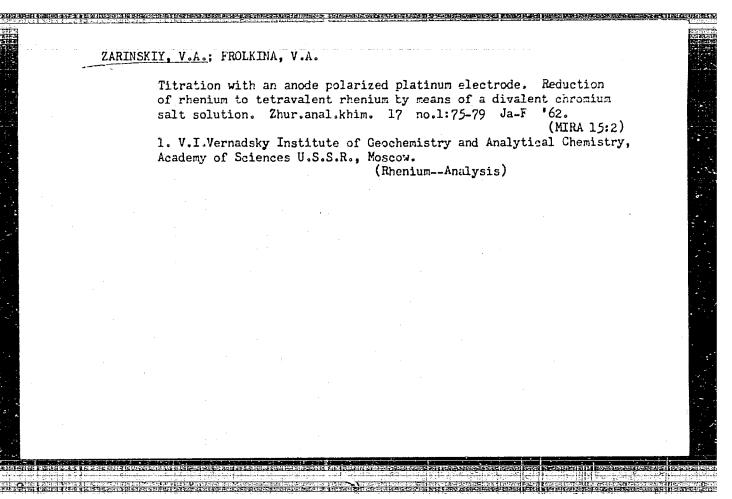
Vernadskogo AN SSSR.

(Hydrogen-ion concentration)

RYABCHIKOV, D.I.; ZARIESKIY, V.A.; NAZARENKO, I.I.

Composition of a rhenium thiocyanate complex compound. Zhur.
neorg. khim. 6 no.3:641-646 Mr '61. (MIRA 14:3)

(Rhenium compounds)



RYABCHIKOV, D.I.; GERLIT, Yu.B.; KARYAKIN, A.V.; ZARINSKIY, V.A.; ZUERILINA, M.Ye.

Extraction of perrhenates by ketones. Dokl.AN SSSR 144 no.3:585-587 My 162. (MIRA 15:5)

1. Institut geokhimii i analiticheskoy khimii im. M.I. Vernadskogo AN SSSR. Predstavleno akademikom A.P.Vinogradovym. (Parrhenates) (Ketones)

ANOKHIN, V.L.; ZARINSKIY, V.A.; IVASHKIN, A.V.

High-frequency sensing element for recording yield curves in chromatographic apparatus. Zav.lab. 28 no.8:1010-1012 '62. (MIRA 15:11)

1. Institut reokhimií i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR i Institut obshchey i kommunal'noy gigiyeny AMN SSSR.

(Chromatographic analysis)

ZARINSKIY, V.A.

High frequency method in organic analysis. Trudy Kom.anal.khim. 13:339-335 163. (MIFA 16:5)

1. Institut geokhimii 4 analiticheskoy khimii imeni V.I.Vernadskogo AN SSSR.

(Organic compounds) (Electrochemical analysis)

RYABCHIKOV, D.I.; YAO KE-MIN' [Yao K'o-min]; ZARINSKIY, V.A.

Complex formation of indium with some complexons. Zhur.neorg.khim.
(MIRA 16:5)
8 no.2:338-341 F '63.

1. Institut geokhimii i analiticheskoy khimii imeni V.I.Vernadskogo
AN SSSR.
(Indium compounds) (Gomplexons)

RYABCHIKOV, D.I.; VOLYNETS, M.P.; ZARINSKIY, V.A.

Reaction of thorium with sodium hexamethylenediamine tetraacetate. Zhur.anal.khim. 18 no.4:542-544 Ap '63.

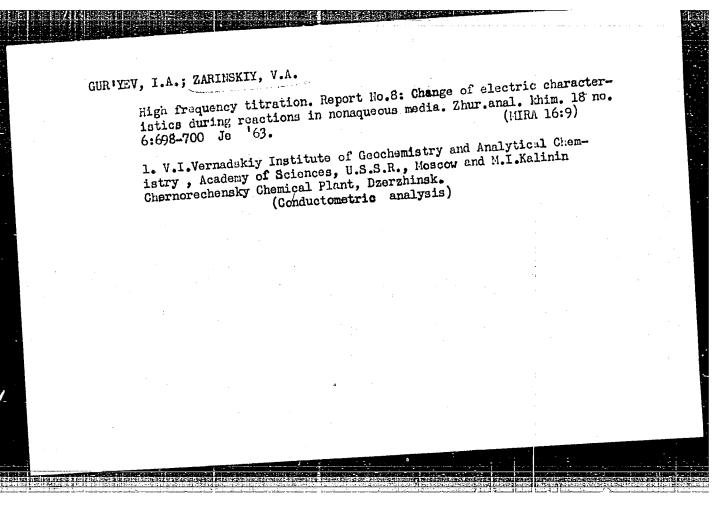
(MIRA 16:6)

1. V.I.Vernadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences, U.S.S.R., Moscow.

(Thorium compounds) (Acetic acid)

"APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-

CIA-RDP86-00513R001963820016-5



RYABCHIKOV, D.I.; VOLYNETS, M.P.; ZARINSKIY, V.A.; IVANOV, V.I.

High-frequency titration. Report Mo.7: Carbonate compounds of thorium. Zhur. anal. khim. 18 no.3:348-356 Mr 163.

(MIRA 17:5)

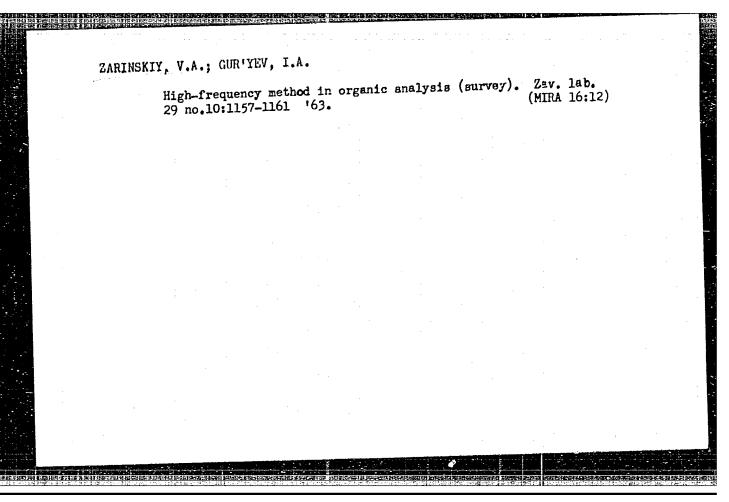
1. Institut geokhimii i analiticheskoy khimii imeni Vornadskogo AN SSSR, Moskva.

ZARINSKIY, V.A.; GUR'YEV, I.A.

High-frequency titration. Report No.9: Titration of acids in an acctic acid medium. Zhur. znal. khim. 18 no.11:1366-1313 N '63.

(MIRA 17:1)

1. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva i chernorechenskiy khimicheskiy zavod imeni M.I. Kalinina, Dzerzhinsk.



RYABCHIKOV, D. I.; ZARINSKIY, V. A.

"Study of the complex formation with rare metals by the high frequency method."

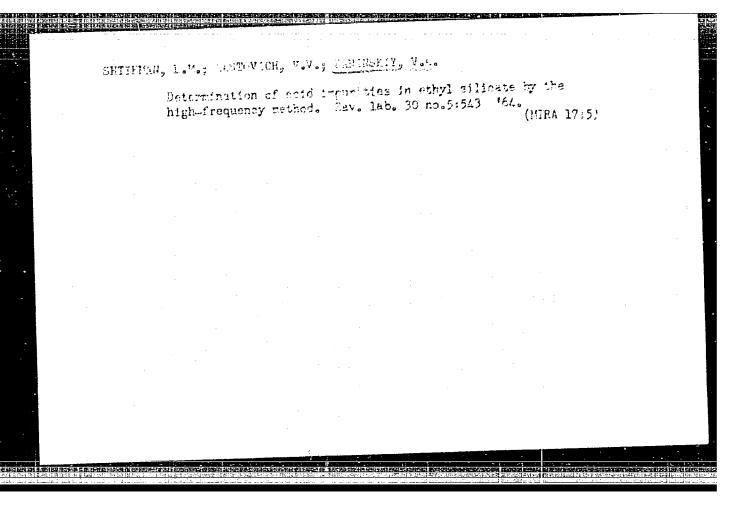
report presented at 8th Intl Conf, Coordination Chemistry, Vienna, 7-11 Sep 64.

BOKINA, V.M.; ZARIHSKIY, V.A.; SHTIFMAN, L.M.

High-frequency titration. Report No.11: Determination of perchloric acid in its mixture with nitric acid in a glacial acetic acid medium. Zhur. anal. khim. 19 no.5:635-637 164.

(MIR: 17.0)

Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SSSR, Moskva.



ZARINSKIY, V.A.; GUR'YEV, I.A.

High-frequency titration. Report No. 1: Titration of acids in dioxane-aqueous media. Zhur. anal. khim. 19 no. 1:37-'2 '64. (MIRA 17:5)

1. Institut geokhimii i analiticheskoy khimii imeni Vernadekogo AN SSSR, Moskva i TSentral'naya zavodskaya laboratoriya Chernorechenskogo khimicheskogo zavoda imeni Kalinina, Dzerzhirsk.

GUR YEV, I.A.; ZARIHSKIY, V.A.

High-frequency method in production control. Determination of cyanuric acid. Trudy po khim.i khim.tekh. no.1:136-138 (MIRA 18:12)

1. Submitted June 7, 1963.

YERMOLAYEV, N.P.; ZHIDIKOVA, A.P.; ZARINSKIY, V.A.

Ellicate form of uranium transfer in aqueous solutions. Geokhimiia no.7:813-326 Jl *65.

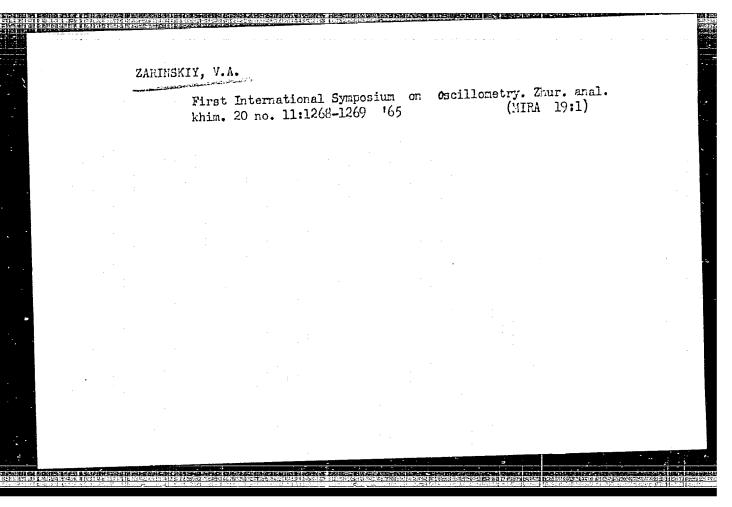
l. Institut geokhimii i analiticheskoy khimii imeni V.I. Vernadskogo AN SSSR, Moskva. Submitted December 7, 1964. (MIRA 18:11)

AZAROVA, Ye.I.; ZARINSKIY, V.A.

Study of the reaction of some hydroxystearic acids with H3BO3 by the high-frequency titration rathod. Izv. AN Turk. SSR.Ser.fiz.-tekh., khim. 1 geol.nauk #3.5132-38 165.

Formation of borohydroxystearic acids as dependent on the pH of alcohol solutions. Tbid.:39-43 (MIRA 18:11)

1. Institut geokhimii i analiticheskoy khimii im. V.I. Vernadskogo AN SSSR i Institut khimii AN Turkmenskoy SSR. Submitted April 25, 1965.



ZARINSKIY, V.A.; GUR'YEV, I.A.

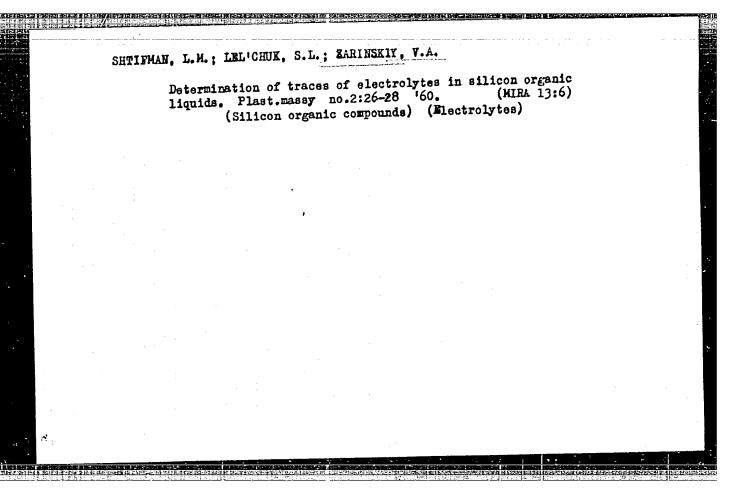
High-frequency titration. Report No.13: Titration of acids in glycol media. Zhur. anal. khim. 20 no.3:294-298 165. (MIRA 18:5)

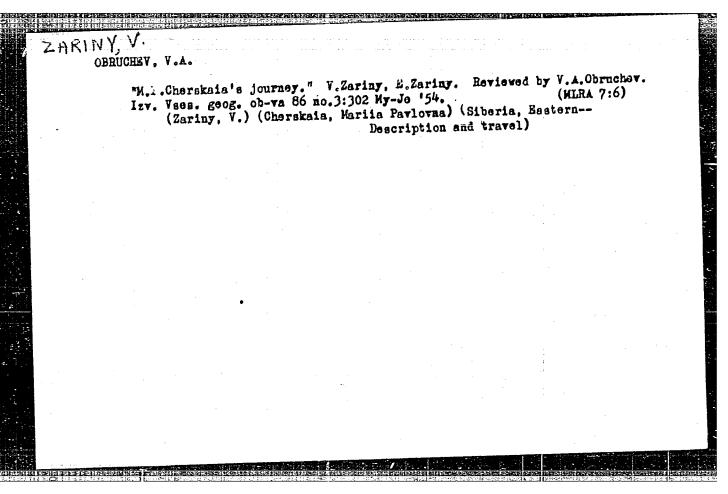
1. Institut geokhimii i analiticheskoy khimii imeni Vernadskogo AN SBSR, Moskva i Chernorechenskiy khimicheskiy zavod imeni Kalinina, Dzerzhinsk.

ZARINSKIY, V.A.; GUR'YEV, I.A.

High-frequency titration Report 12: Indirect titration of acids in a dioxane aqueous medium. Zhur. anal. khim. 19 no.12:1/29-1433 164 (MIRA 18:1)

1. V.I. Vermadsky Institute of Geochemistry and Analytical Chemistry, Academy of Sciences of the U.S.S.R., and M.I. Kalinin Chemorechensky Chemical Plant, Dzerzhinsk.





"APPROVED FOR RELEASE: 09/19/2001

CIA-RDP86-00513R001963820016-5

CARINY, YC.

OBRUCHEV, V.A.

"M.:.Cherskaia's journey." Y.Zariny, E.Zariny. Reviewed by Y.A.Obruchev.

(MIRA 7:6)

Izv. Yass. gsog. ob-va 86 no.3:302 My-Jo '54. (MIRA 7:6)

(Zariny, V.) (Cherskaia, Mariia Pavlovna) (Siberia, Bastera
(Zariny, V.) (Cherskaia, Mariia Pavlovna) (Pavlovna)

Description and travel)

J-5

USSR/Soil Science. Mineral Fertilizers

Abs Jour : Nef Zhur - Biol., No 20, 1958, No 91464

: Bembers K., Belode A., Zerinya A. Author

: AS Latvian SSR

: The Yield Effect of Spraying Seeds with Micronutrients Inst Title

Orig Pub : Izv. AN IntvSSR, 1957, No 6, 33-34

Abstract : Results are given of vegetative (soil cultures) and field tests where seeds have been sprayed with various deses of borex, borate and Cu30h. The method has been applied to several cultures: carrots, sugar and red beet, the Swedish turnip, flax, corn, oats, barley and vetch. If the seeds were sprayed and sowed on the same day, the germinating especity was not reduced at a desage of 8-12 3/kg for borate and 2-4 g/kg for sulphate. The crop then rose. Also, the coefficient describing the use of microfertilizers increased abruptly, compared with that of the ordinary manner of applying the fertilizers one after the other. A test with the combined application of microfertilization and seed socking in fungicide

showed the prospects of this method. -- N.I. Borisova

Card

33

CIA-RDP86-00513R001963820016-5" APPROVED FOR RELEASE: 09/19/2001

BLYUMENTAL:, Ya. [Blumental:, J.]; ZARINYA, E. [Zarina, E.]

Procedures for paying savings tanks for trade-union stamps.
Den. i kred. 19 no.11:75-77 H '61. (MIRA 14:12)

1. Glavnyy bukhgaltor gorodskogo Upravloniya Latviyakoy respublikanskoy kontory Gosbanka (for Blyumental'). 2. Glavnyy bukhgaltor Rizhekoy gorodskoy tsontral'noy sberesatel'noy kassy (for Zarinya). (Riga-Savings banks)

S/081/62/000/001/026/067 B151/B101

AUTHORS:

Barabanov, B. V., Zarinya, E. M., Ogilets, M. V.,

Taksar, I. M., Yanushkovskiy, V. A.

TITLE:

Automatic control of a vacuum-distillation apparatus

using radioactive relay systems

PERIODICAL: Referativnyy zhurnal, Khimiya, no. 1, 1962, 300, abstract 11133 (So. "Radioaktivn. izotopy i yadern.

izlucheniya v nar. kh-ve SSSR. v. 2". M., Gostoptekhizdat,

1961, 84-85)

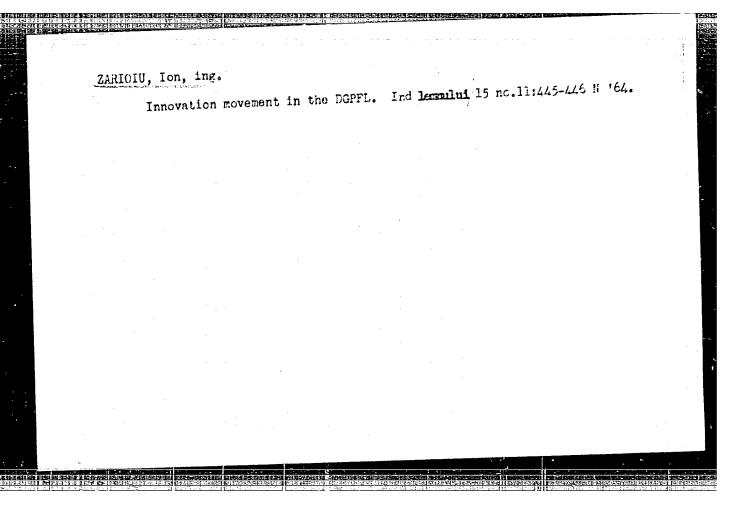
TEXT: For the control of a single-shell vacuum-distillation apparatus in the Rizhskiy maslozhirovyy kombinat (Riga Oil and Fat Combine) a system has been installed whereby a measuring column with an areometer floating in it is connected with the apparatus by means of two thin tubes. On the column there are two β -radiation sources of the $\beta M-1$ (BI-1) type and two pickups of the $\beta M-6$ (RD-6) type (for determination of the density and level of the solution). The signal from the pickups enters a standard amplifier

Card 1/2

S/081/62/000/C01/026/057

Automatic control of ...

Circuit of the Y-11-1 (URAF-ZD) type and is then passed on to an automatic control block through the slave. It is envisaged that the transition will be made from automatic control to semi-automatic and centralized menual control. The installation of this system in a single centralized menual control. The installation of glycerin gives shell vacuum distillation apparatus for the production of glycerin gives an economic saving of ~64 thousand roubles per year. [Abstracter's note: Complete translation.]



ZARIMUV, A.G.; STRAYDV, V.A.; GRITSAY, A.I.

Industrial test of certain demaloifiers. Neft. knac. 42 no.12:
(NIAA 18:2)

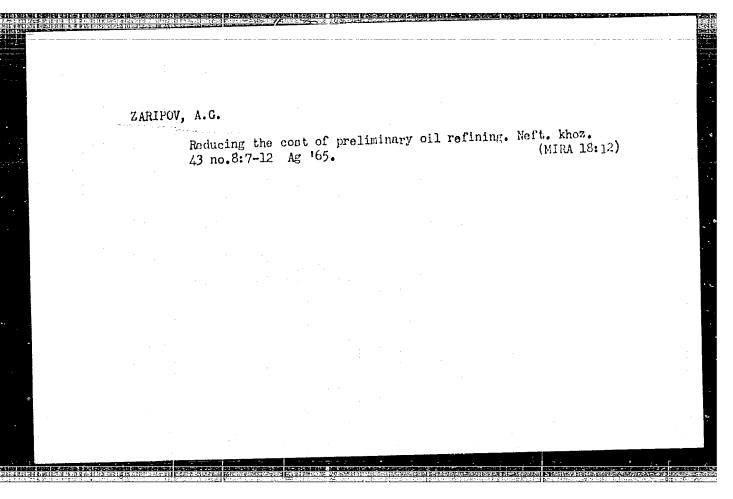
42-47 D 164

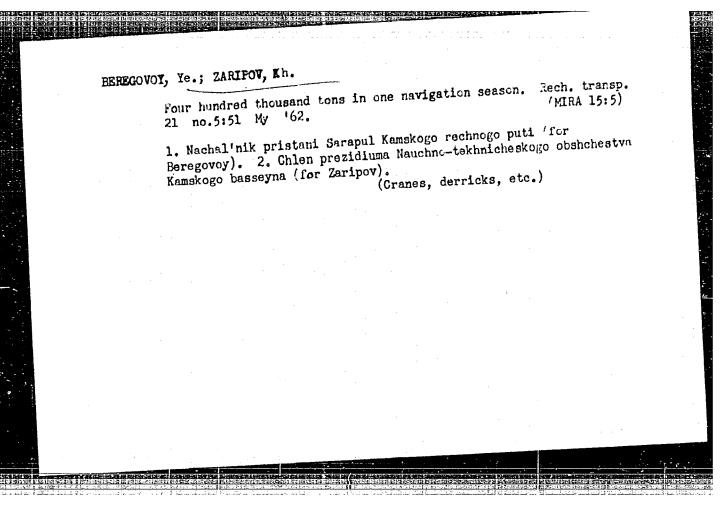
BIKKULOV, A.Z.; KHLESTKIN, R.N.; GROSHEV, B.M.; KHAMAYEV, V.Kh.;

ZARIPOV, A.G.

Use of petroleum toluene to obtain terephthalic acid. Nefteper.
i neftekhim. nc.8:33-35 163. (MIRA 17:8)

1. Ufimiskiy neftyanoy institut.

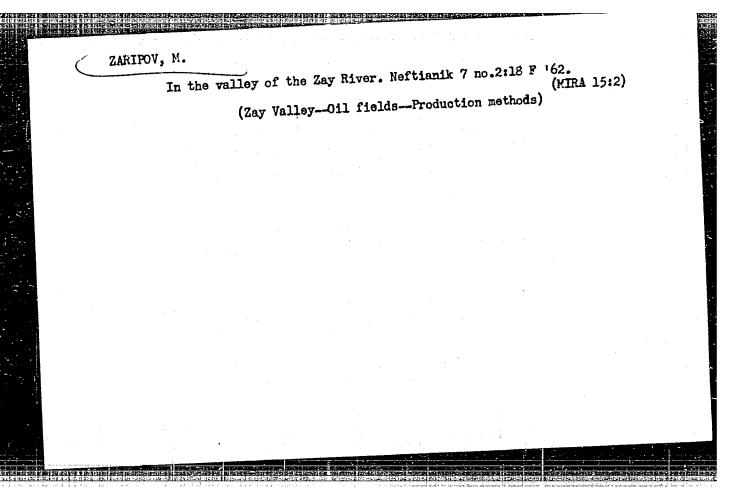


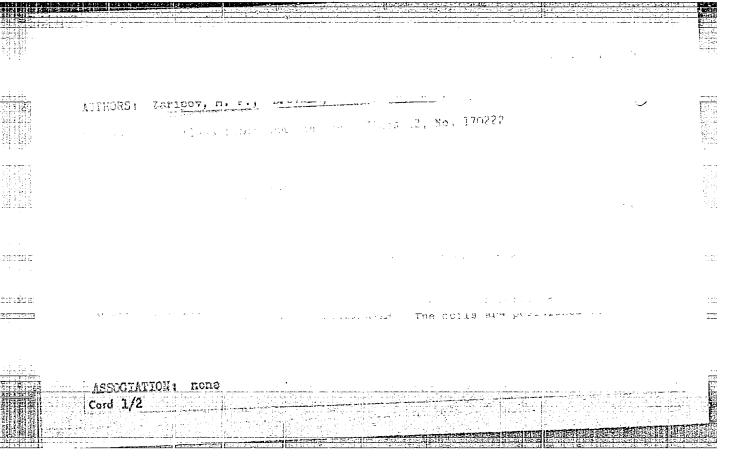


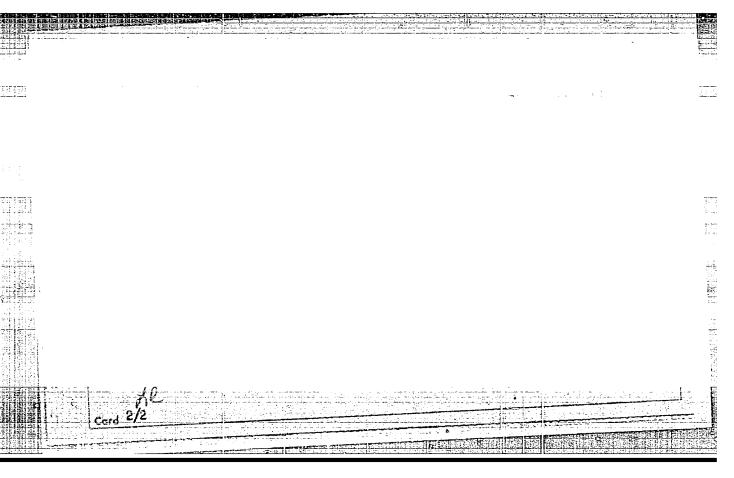
STHIKOV, G.; SITNIKOV, D.; ZARIPOV, M.

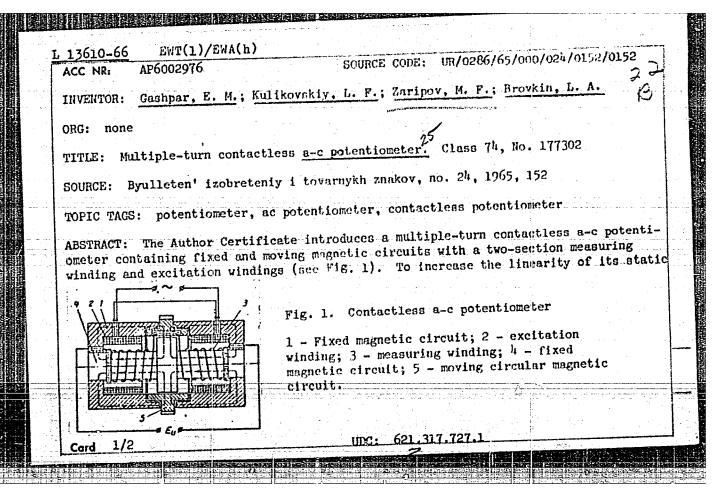
Every trailer should be in operation. Avt.transp. 38 no.7:6
(MIRA 13:7)
J1 '60.

1. Wahal'nik Avtotransportnoy kontory No.2 Sverdlovekogo
goravtotrests (for Sitnikov). 2. Sekretar' parthyuro Avtogoravtotrosy kontory Ho.2 Sverdlovekogo goravtotrests (for
transportnoy kontory Ho.2 Sverdlovekogo goravtotrests (for
Sitnikov, D.) 3. Predsedatel' mestkoma Avtotransportnoy
kontory Mo.2 Sverdlovekogo goravtotrests (for Zaripov).
(Transportation, Automotive)



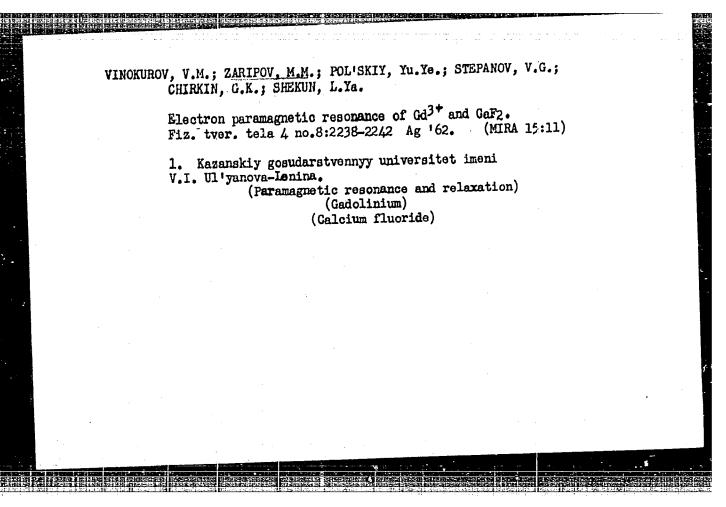






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ARKHANGEL'SKAYA, Ye.D.; ZARTFOY, M.M.; POL'SKIY, Yu.Ye.; STEPANOV, V.G.; CHIRKIN, G.K.; SHEKUN, L.Ya.

Electron paratagnetic resonance of Cr3+ in K2Zn(304)2.6E20.
Fiz. tver. tela 4 no.9:2530-2533 S '62.

1. Kazanskiy gosudarstvennyy universitet imeni V.I. Ul'yanova-Lenina.

(Paramagnetic resonance and relaxation)

(Tutton's salts)